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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,432	01/30/2004	Tomoyuki lijima	ASAM.0106	6406
REED SMITH	7590 08/07/2007		EXAMINER	
Suite 1400			WONG, BLANCHE	
3110 Fairview Falls Church, V			ART UNIT PAPER NUMBER 2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/767,432	IIJIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Blanche Wong	2616				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	ne correspondence addre	ss			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT .136(a). In no event, however, may a reply b d will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	ION. be timely filed from the mailing date of this commit ONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>30 .</u>	January 2004.					
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.					
3) Since this application is in condition for allows	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.				
Disposition of Claims	•					
4) ☐ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/e	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and accomposed and the correct and the co	cepted or b) objected to by the drawing(s) be held in abeyance.	See 37 CFR 1.85(a). objected to. See 37 CFR 1				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applic Pority documents have been received.	cation No eived in this National Sta	ge			
Attachmont(é)		^				
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) Interview Summ	nary (PTO-413)	•			
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma 5) Notice of Inform	il Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	iai i ateitt Application				

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the configuration console that has a display screen and command input means (claim 10) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Objections

2. Claims 1-10 are objected to because of the following informalities:

With regard to claim 1-10, Examiner suggests replacing "virtual router of 1" with "first virtual router".

With regard to claim 6, line 4, Examiner suggests spelling out VRRP when abbreviation is used for the first time.

With regard to claim 7, line 4, Examiner suggests spelling out VRID when abbreviation is used for the first time.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. **Claims 1-10** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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With regard to claim 1, it is unclear whether it is a redundancy packet transmission router claim, or a active or standby router claim, because lines 6-7 indicates "each of said active router and said standby router comprising:", not "the redundancy packet transmission router comprising:"

With regard to claim 1, line 18, it is unclear what is meant by "virtual router of 1", whether that means one virtual router. Additionally, there is no "virtual router of 2" or more than one virtual routers in the claim language, so it is unclear whether a differentiation of virtual routers, namely "virtual router of 1", is necessary.

With regard to claim 1, line 24, it is unclear what is "identification information of 1", whether there is one identification information or "1" is the number one.

With regard to claim 1, line 26, it is unclear whether "said identification information" is the same as "identification information of 1" in line 24. Similarly in claim 4-8.

With regard to claim 2, lines 6-7, and claim 9, lines 2-4, and claim 10, lines 4-5, it is unclear how "an identifier indicating how said corresponding virtual router on said standby router processes" or how "an identifier indicating how said corresponding virtual router processes".

With regard to claim 9, lines 2-4, it is unclear whether "said identifier indicating how said corresponding virtual router processes" is the same as "an identifier indicating how said corresponding virtual router on said standby router processes" in claim 2, lines 6-7.

With regard to claim 10, lines 4-5, it is unclear whether "said identifier indicating how said corresponding virtual router processes" is the same as an identifier indicating

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how said corresponding virtual router on said standby router processes" in claim 2, lines 6-7.

5. There is insufficient antecedent basis for this limitation in the claim.

Claim 1, lines 20-22, "the corresponding one of the virtual routers realized on said standby router".

Claim 1, lines 22-23, "said processor provided on said active router".

Claim 1, lines 26-28, "said identification information from said corresponding virtual router of 1 realized on said standby router".

Claim 3, lines 3-5, "said routing information managed by said corresponding virtual router realized on said standby router".

Claim 5, lines 9-10, "the transfer processing".

Claim 9, line 3, "said corresponding virtual router processes".

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 7. Claims 1-10 are rejected under 35 U.S.C. 102(a) as being anticipated by Srikanth et al. (U.S. Pat NO. 6,556,547).

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With regard to claim 1, Srikanth discloses a redundancy packet transmission router (see master and backup virtual routers 1 and 2 in Fig. 2, col. 2, line 9) comprising:

a network interface (Srikanth discloses a redundancy packet transmission router comprising virtual routers connected to nodes 1-n in Fig. 2. Srikanth does not expressly teach a network interface of a router. Nevertheless, the recited network interface is inherent in routers connected to nodes as taught in Srikanth.) accommodating communication channels;

a processor (processor) (processor-readable medium, col. 6, line 44) for making a predetermined process on a received packet;

a table memory (network address translation tables can be stored on the machine-readable medium, col. 6, lines 51-52) for storing routing information (network address translation) necessary for the routing processing of said received packet; and

a program memory (software product stored on a machine-readable medium, col. 6, line 41) in which a program to be executed by said processor is previously stored, whereby when said routing information managed by a virtual router of 1 of said plurality of virtual routers realized on said active router (master router in Fig. 2, col. 2, line 11) is synchronized (synchronizing network address translation tables, col. 6,line 51) with said routing information to be managed by a corresponding one of the virtual routers realized on said standby router (backup router in Fig. 2, col. 2, line 12), said processor provided on said active router (e.g. master 1 in master virtual router 1 in Fig. 2) transmits to said standby router (the master virtual router

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periodically transmits advertisements ... to the backup virtual router(s), vol. 2, lines 34-35) a packet including identification information that indicates said virtual router of 1 (to indicates to the backup(s) that it is still functioning as the master virtual router, col. 2, lines 36-38), receives a response signal (a shutdown event) (if the master virtual router 1 fails ... a shutdown event, col. 2, line 43) relative to said identification information from said corresponding virtual router of 1 realized on said standby router (e.g. master 2 in backup virtual router 2 in Fig. 2), and transmits to said standby router said routing information (routing capability) that said virtual router of 1 of said active router manages (backup virtual router 1 takes over as the new master virtual router 1, providing routing capability for nodes ... Since both [master and backup] routers maintain the same IP address, col. 2, lines 44-46).

With regard to claim 2, Srikanth further discloses an identifier indicating how said corresponding virtual router on said standby router processes (see VRID=2 in Fig. 2).

With regard to claim 3, Srikanth further discloses routing information (routing capability) managed by said corresponding virtual router (e.g. master 2 in backup virtual router 2 in Fig. 2) realized on said standby router (backup virtual router) (backup virtual router takes over as the new master virtual router, providing routing capability for nodes ... Since both [master and backup] routers maintain the same IP address, col. 2, lines 44-46).

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With regard to claim 4, Srikanth further discloses "periodically transmits" (periodically transmits, col. 2, line 34).

With regard to claim 5, Srikanth further discloses the standby router has a counter (master-down_timer) (master-down_timer expires, col. 2, line 42). Srikanth discloses a standby router comprising a counter that expires (master-down_timer expires, col. 2, line 42). Srikanth does not expressly teach the recited predetermined time of the counter. Nevertheless, the recited predetermined time is inherent in a counter that expires as taught in Srikanth.

With regard to claim 6, Srikanth further disclose the transfer processing (takes over) (a shutdown event ... backup virtual router takes over as the new master virtual router, col. 2, lines 43-45).

With regard to claims 7 and 9, Srikanth further discloses VRID (VRID in Fig. 2) field of said VRRP (VRRP, col. 2, line 28) packet (See Also formatted as IP multicasts, col. 2, line 35).

With regard to claim 9, Srikanth further discloses a type (VRID in Fig. 2) field (See Also formatted as IP multicasts, col. 2,line 35).

With regard to claim 10, Srikanth discloses a router comprising software code stored in memory (software product stored on a machine-readable medium, col. 6,

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line 42). Srikanth does not expressly teach a command entered through command input means. Nevertheless, the recited a command by someone is like software code written by someone and a command entered through command input means is like extracting and executing the software code in memory. Therefore, the recited a command entered through command input means is inherent in the software code stored in memory as taught in Srikanth.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BW July 30, 2007

> EDAN ORGAD PRIMARY PATENT EXAMINER

8/6/07